

SEQUENCE LISTING

<110> Nuevolution A/S

<120> Proximity-aided synthesis of templated molecules

<130> TM6-PCT

<140> 10527449

<141> 2007-10-01

<150> DK PA 2002 01347

<151> 2002-12-09

<150> US 60/409,968

<151> 2002-12-09

<160> 11

<170> PatentIn version 3.2

<210> 1

<211> 21

<212> DNA

<213> artificial sequence

<220>

<223> Oligonucleotide O1 used as template in example 1

<220>

<221> misc_feature

<222> (1)..(1)

<223> n is Amino-Modifier C6 dT (Glen Research Catalogue # 10-1039-90)

<400> 1

ncgatggatg ctccaggtcg c 21

<210> 2

<211> 12

<212> DNA

<213> artificial sequence

<220>

<223> Oligonucleotide O2 used for preparing building block 1 in example 1

<220>

<221> misc_feature

<222> (1)..(1)

<223> n is g modified with Biotin phosphoramidite (Glen Research catalogue # 10-1953-95)

<220>

<221> misc_feature

<222> (12)..(12)

<223> n is g modified with C6 S-S thiol modifier (Glen Research catalogue # 10-1936-90)

<400> 2

nagcatcca tcn 12

<210> 3

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide O3 used in example 1 for preparation of the second building block

<220>

<221> misc_feature

<222> (1)..(1)

<223> n is c modified with Biotin Phosphoramidite (Glen Research,
 catalogue #
 10-1953-95)
 <220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n is g modified with C6 S-S thiol modifier (Glen Research,
 catalogue #10-1936-90)
 <400> 3
 ntggagcat ccatcn 15
 <210> 4
 <211> 20
 <212> DNA
 <213> artificial sequence
 <220>
 <223> Oligonucleotide O4 used in example 1 for preparation of the
 third
 building block
 <220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n is g modified with Biotin Phosphoramidite (Glen Research,
 catalogue #
 10-1953-95)
 <220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n is g modified with C6 S-S thiol modifier (Glen Research,
 catalogue #10-1936-90)
 <400> 4
 ncgacctgg agcatccatcn 20
 <210> 5
 <211> 12
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Oligonucleotide O5 used in example 2 for preparation of a
 building
 block
 <220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n is g modified with C6 S-S thiol modifier (Glen Research,
 catalogue #10-1936-90)
 <400> 5
 gagcatccat cn 12
 <210> 6
 <211> 15
 <212> DNA
 <213> Artificial Sequence
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 <223> Oligonucleotide O6 used in example 2 for preparation of a
 building
 block
 <220>
 <221> misc_feature
 <222> (15)..(15)

<223> g modified with C6 S-S thiol modifier
 <400> 6
 ctggagcatc catcn 15
 <210> 7
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Oligonucleotide O7 used in example 2 for preparation of a
 building
 block
 <220>
 <221> misc_feature
 <222> (20)..(20)
 <223> g modified with C6 S-S thiol modifier
 <400> 7
 gcgacctgga gcatccatc n 20
 <210> 8
 <211> 15
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Oligonucleotide O8 used in example 2 for preparation of a
 building
 block
 <220>
 <221> misc_feature
 <222> (15)..(15)
 <223> g modified with C6 S-S thiol modifier
 <400> 8
 gacgagcatc catcn 15
 <210> 9
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Oligonucleotide O9 used in example 2 for preparation of a
 building
 block
 <220>
 <221> misc_feature
 <222> (20)..(20)
 <223> g modified with C6 S-S thiol modifier
 <400> 9
 ctagggacga gcatccatcg 20
 <210> 10
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Oligonucleotide O10 used in example 2 for preparation of a
 template
 <220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n is a modified with PC Biotin (Glen Research, catalogue #
 10-4950-95)

<400> 10
 cgatggatgc tcccagggtcg cn 22
 <210> 11
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Oligonucleotide O11 used in example 2 for preparation of a
 template
 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n is a modified with PC Biotin (Glen Research, catalogue #
 10-4950-95)
 <400> 11
 cgatggatgc tcgtccctag n 21

 <210> 12
 <211> 58
 <212> DNA
 <213> Artificial

 <220>
 <223> Synthetic (Template)

 <220>
 <221> misc_feature
 <222> (16)..(20)
 <223> n is a, c, g, or t

 <400> 12
 agcgctaact gagacnnnnn agaghhhhhg ghhhhhgghh hhhggctcga catgcgta
 58

 <210> 13
 <211> 20
 <212> DNA
 <213> Artificial

 <220>
 <223> Synthetic (Nucleotide sequence of scaffold building block)

 <220>
 <221> misc_feature
 <222> (16)..(19)
 <223> n is a, c, g, or t

 <400> 13
 tcgcgattga ctctgnnnnt
 20

 <210> 14
 <211> 10

<212> DNA
<213> Artificial

<220>
<223> Synthetic (First building blocks)

<400> 14
ctcddddddcc
10

<210> 15
<211> 17
<212> DNA
<213> Artificial

<220>
<223> Synthetic (Second building block)

<220>
<221> misc_feature
<222> (4)..(8)
<223> n is inosine.

<400> 15
ctcnnnnncc dddddcc
17

<210> 16
<211> 24
<212> DNA
<213> Artificial

<220>
<223> Synthetic (Third building block)

<220>
<221> misc_feature
<222> (4)..(8)
<223> n is inosine.

<220>
<221> misc_feature
<222> (11)..(15)
<223> n is inosine.

<400> 16
ctcnnnnncc nnnnnccddd ddcc
24

<210> 17
<211> 6
<212> PRT

<213> Artificial

<220>

<223> Synthetic (Hexapeptide used to bind to amino
oligonucleotide to create an identifier molecule)

<400> 17

Cys Phe Phe Lys Lys Lys

1

5